Question 1:

Write a program of your own to demonstrate the concept of static scoping as used in C programming language.

Question 2:

Write a brief note on the control structures in C. Give the syntax of at least six statements' syntax that do the flow control in C programming language.

Question 3:

Use a two-dimensional array to store a set of integers inserted as user inputs. Extract each integer *r* from the array and use it as an input parameter for a user-defined function coded to perform a required calculation. In this problem, the user-defined function should be tuned to calculate the area, perimeter of a circle considering r as the radius.

Upon calculation, results will be stored in a text file in separate columns—the text file should have the following columns: a) Serial No. b) Radius, c) Area, d) Perimeter.

Also, once you execute and run the program, it should print the two-dimensional array of radius and corresponding circle areas.

Condition: Both the dimensions of the two dimensional array should be at least 5.